

Future Flight Design			
2004 Science			
Grade Level Articulations			
Arizona Science			
Grade 5			
Activity/Lesson	State	Standards	
Air Transportation Problem	AZ	SCI.5.1.3.PO 2	Analyze whether the data is consistent with the proposed explanation that motivated the investigation.
Air Transportation Problem	AZ	SCI.5.1.4.PO 1	Communicate verbally or in writing the results of an inquiry.
Air Transportation Problem	AZ	SCI.5.2.2.PO 4	Compare collaborative approaches that scientists use for investigations (e.g., teams, individual with peer review).
Aircraft Design Problem	AZ	SCI.5.3.2.PO 3	Design and construct a technological solution to a common problem or need using common materials.
Aircraft Design Problem	AZ	SCI.5.5.2.PO 2	Describe the various effects forces can have on an object (e.g., cause motion, halt motion, change direction of motion, cause deformation).
Aircraft Design Problem	AZ	SCI.5.5.2.PO 4	Demonstrate effects of variables on an object's motion (e.g., incline angle, friction, applied forces).
Future Flight Design			
2004 Science			
Grade Level Articulations			
Arizona Science			
Grade 6			
Activity/Lesson	State	Standards	
Air Transportation Problem	AZ	SCI.6.1.3.PO 3	Evaluate the observations and data reported by others.
Air Transportation Problem	AZ	SCI.6.1.3.PO 5	Analyze the results from previous and/or similar investigations to verify the results of the current investigation.
Air Transportation Problem	AZ	SCI.6.1.4.PO 2	Display data collected from a controlled investigation.
Air Transportation Problem	AZ	SCI.6.2.2.PO 3.c	Apply the following scientific processes to other problem solving or decision making situations (communicating)
Future Flight Design			
2004 Science			
Grade Level Articulations			
Arizona Science			
Grade 7			
Activity/Lesson	State	Standards	
Air Transportation Problem	AZ	SCI.7.1.3.PO 3	Analyze results of data collection in order to accept or reject the hypothesis.
Air Transportation Problem	AZ	SCI.7.1.3.PO 4	Determine validity and reliability of results of an investigation.

Air Transportation Problem	AZ	SCI.7.1.3.PO 5	Formulate a conclusion based on data analysis.
Air Transportation Problem	AZ	SCI.7.1.4.PO 2	Display data collected from a controlled investigation.
Future Flight Design			
2004 Science			
Grade Level Articulations			
Arizona Science			
Grade 8			
Activity/Lesson	State	Standards	
Air Transportation Problem	AZ	SCI.8.1.3.PO 3.a	Interpret data that show a variety of possible relationships between two variables, including (positive relationship)
Air Transportation Problem	AZ	SCI.8.1.3.PO 4	Formulate a future investigation based on the data collected.
Air Transportation Problem	AZ	SCI.8.2.2.PO 1.c	Apply the following scientific processes to other problem solving or decision making situations (communicating)
Aircraft Design Problem	AZ	SCI.8.5.2.PO 3	Describe how the acceleration of a body is dependent on its mass and the net applied force (Newton's 2nd Law of Motion).
Aircraft Design Problem	AZ	SCI.8.5.2.PO 4	Describe forces as interactions between bodies (Newton's 3rd Law of Motion).
Aircraft Design Problem	AZ	SCI.8.5.2.PO 5.a	Create a graph devised from measurements of moving objects and their interactions, including (position-time graphs)